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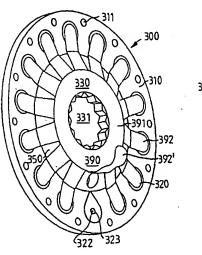
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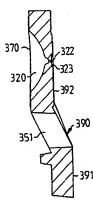
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LIQUID DELIVERY CONTAINER





(57) Abstract: Pressurisable container for storing and ejecting liquid, the container comprising a) a front wall having or surrounding a cavity corresponding to the form of an open vessel, b) an opening in the front wall adapted for ejection of the liquid from the container, said opening defining a container axis, c) optionally a sealing over the opening adapted for temporary use, and d) a rear wall closing and sealing the open part of the front wall vessel to confine a space for the liquid in the container, the rear wall running at least partially perpendicular to the container axis and being displaceable or deformable for movement towards the opening to pressurize the container liquid. The front wall is substantially rigid in relation to the rear wall, the rear wall before pressurizing the container is substantially flat or substantially single-curved and the rear wall is deformable under stretching to substantially fill out the container cavity. The invention also relates to methods for container manufacture and devices and methods for ejecting liquid from the containers.

International application No.

PCT/SE 00/01514

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61M 11/00, A61F 9/00, B05B 9/08, B65D 83/00 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61F, B05B, B65D, A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	EP 0832568 A2 (UNICE INTERNATIONAL LIMITED), 1 April 1998 (01.04.98), column 6, line 11 - line 34; column 7, line 11 - column 8, line 48, figures 1-3, claim 12, detail 18	1-4,6-8,10, 27-28,30, 33-35,38, 44-48,52-57
Y		5,9,29,41,43
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Y	US 4433797 A (GALIA), 28 February 1984 (28.02.84), column 4, line 23 - line 27, figures 1-2, details 16,54	5,9,29,41,43
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Y Further documents are listed in the continuation of Box C.	X See patent family annex.
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Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance

earlier application or patent but published on or after the international

filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

document referring to an oral disclosure, use, exhibition or other ٠٥٠

document published prior to the international filing date but later than

- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 20 -11- 2000 9 November 2000 Authorized officer Name and mailing address of the ISA/ **Swedish Patent Office** Marianne Dickman / JAn Box 5055, S-102 42 STOCKHOLM + 46 8 782 25 00 Telephone No.

Form PCT/ISA:210 (second sheet) (July 1998)

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Form PCT/ISA/210 (continuation of second sheet) (July 1998)

International application No. PCT/SE 00/01514

C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
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X	US 5709202 A (LLOYD ET AL), 20 January 1998 (20.01.98), column 20, line 20 - line 42; column 26, line 33 - line 39; column 27, line 28 - line 39, column 28, line 52 - line 59; figures 2-3,5-6, 9-10	40,42,64, 66-73,78-80, 84
Y	US 5516008 A (RABENAU ET AL), 14 May 1996 (14.05.96), column 3, line 56 - line 61; column 5, line 45 - line 55	11-18,31-32, 36-37,39, 49-51,58-63
X	WO 9606581 A1 (R.P. SCHERER CORPORATION), 7 March 1996 (07.03.96), page 18, line 4 - line 14;	64-68,70-71, 74-77,79-80, 83
Y	page 20, line 12 - page 21, line 5, figure 18 page 3, line 35 - page 4, line 2; page 15, line 10 - line 36, claim 1, detail 108	11-18,31-32, 36-37,39, 49-51,58-63
Y	WO 9723177 A1 (R.P. SCHERER LIMITED), 3 July 1997 (03.07.97), page 3, line 20 - line 21	58
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A	US 5622166 A (R.F. EISELE ET AL), 22 April 1997 (22.04.97), figures 2-4	14-23
A	US 5349947 A (M.T. NEWHOUSE ET AL), 27 Sept 1994 (27.09.94), column 9, line 30 - column 10, line 6, figures 5-12	14-20,24-25, 49-51,64-77, 79,81
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64-66,74-76

Form PCT/ISA/210 (extra sheet) (July 1998)

International application No. PCT/SE00/01514

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)							
This inter	national search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:							
·)								
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:							
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).							
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)							
Inve	ernational Searching Authority found multiple inventions in this international application, as follows: ention 1 ms 1-13, 27-48, 52-63, 90-92. Relates to a container for storing ejecting liquid (claims 1-13, 27-43), a method for manufacture of a container (claims 44-48, 52-53), a method for ejecting liquid a such container (claims 54-63, 92), a device for ejecting liquid a such container (claims 90-91).							
	• • • • • • • • • • • • • • • • • • • •							
1. x 2	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:							
4. [No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:							
Rema	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.							

Intern. Onal application No. PCT/SE00/01514

Box II

Invention 2

Claims 14-26, 49-51. Relates to connected containers forming a multipel container unit (claims 14-26), a method for manufacture of such multipel container unit (claims 49-51).

Invention 3

Claims 64-89. Relates to a device for ejecting liquid from a container.

Information on patent family members

03/10/00

International application No.

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